



US009408773B2

(12) **United States Patent**
Lee

(10) **Patent No.:** **US 9,408,773 B2**
(45) **Date of Patent:** ***Aug. 9, 2016**

(54) **COMPRESSION VEST FOR PATIENTS UNDERGOING HEMODIALYSIS AND IN CRITICAL CARE**

2201/0173 (2013.01); A61H 2201/0184 (2013.01); A61H 2201/165 (2013.01); A61H 2201/5007 (2013.01); A61H 2201/5035 (2013.01); A61H 2201/5043 (2013.01);

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(Continued)

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(58) **Field of Classification Search**

CPC A61H 9/0078; A61H 2205/083; A61H 2201/165; A61H 2201/5071; A61H 2201/0173; A61H 2201/5007; A61H 2201/5035; A61H 2201/5043; A61H 2201/0184; A61H 11/00; A61M 1/342; A61B 17/1355

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See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 35 days.

This patent is subject to a terminal disclaimer.

(56)

References Cited

U.S. PATENT DOCUMENTS

2,588,192 A 3/1952 Akerman et al.
3,683,655 A 8/1972 White et al.

(Continued)

(21) Appl. No.: **14/265,009**

(22) Filed: **Apr. 29, 2014**

OTHER PUBLICATIONS

(65) **Prior Publication Data**

US 2014/0236058 A1 Aug. 21, 2014

Smit et al., article "Use of lower abdominal compression to combat orthostatic hypotension" in Clinical Autonomic Research, Jun. 2004; 14(3):167-75).*

(Continued)

Related U.S. Application Data

(63) Continuation-in-part of application No. 12/977,574, filed on Dec. 23, 2010, now Pat. No. 9,155,541, which is a continuation-in-part of application No. 12/062,944, filed on Apr. 4, 2008, now Pat. No. 7,879,069.

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(60) Provisional application No. 61/000,436, filed on Oct. 26, 2007.

(51) **Int. Cl.**

A61H 11/00 (2006.01)

A61B 17/135 (2006.01)

(Continued)

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ABSTRACT

A method of inhibiting hypotensive symptoms in a patient undergoing treatment or a procedure involves elastically constraining the internal organs within the abdomen of the patient while applying non-pulsating, compressive pressure to the internal organs within the abdomen of the patient. The method may also involve one or more of infusing fluid, applying the compressive pressure using compression device, or applying the compressive pressure based upon bio-indicator measurement parameters.

(52) **U.S. Cl.**

CPC A61H 11/00 (2013.01); A61B 17/1355 (2013.01); A61H 9/0078 (2013.01); A61H

5 Claims, 12 Drawing Sheets

